

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122619\  
 Data File : VY001065.D  
 Acq On : 26 Dec 2019 12:39  
 Operator : SY/MD  
 Sample : VY1226SBS01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1226SBS01

Manual Integrations  
 APPROVED

apatel  
 12/27/2019 11:04:33 AM

Quant Time: Dec 27 04:36:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y122319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 12:07:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 324397   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 562527   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 500598   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 230330   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 152442   | 47.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 95.30%  |      |
| 35) Dibromofluoromethane  | 7.73   | 113 | 161217   | 48.67 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.34%  |      |
| 50) Toluene-d8            | 10.18  | 98  | 677316   | 52.32 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.64% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 216809   | 45.81 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.62%  |      |

## Target Compounds

|                               |      |     |        |        |      | Qvalue |
|-------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85  | 59099  | 20.907 | ug/l | 99     |
| 3) Chloromethane              | 2.12 | 50  | 77619  | 20.176 | ug/l | 96     |
| 4) Vinyl Chloride             | 2.26 | 62  | 74384  | 19.909 | ug/l | 97     |
| 5) Bromomethane               | 2.65 | 94  | 47157  | 19.124 | ug/l | 96     |
| 6) Chloroethane               | 2.79 | 64  | 47424  | 20.380 | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.13 | 101 | 110010 | 20.075 | ug/l | 99     |
| 8) Diethyl Ether              | 3.54 | 74  | 42246  | 18.886 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.90 | 101 | 73142  | 20.319 | ug/l | 97     |
| 10) Methyl Iodide             | 4.10 | 142 | 96758  | 19.455 | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.97 | 59  | 28119  | 79.931 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.88 | 96  | 73983  | 20.301 | ug/l | 98     |
| 13) Acrolein                  | 3.74 | 56  | 34656  | 79.508 | ug/l | 99     |
| 14) Allyl chloride            | 4.49 | 41  | 109962 | 19.423 | ug/l | 98     |
| 15) Acrylonitrile             | 5.18 | 53  | 99789  | 89.261 | ug/l | 99     |
| 16) Acetone                   | 3.96 | 43  | 69359  | 94.101 | ug/l | 95     |
| 17) Carbon Disulfide          | 4.20 | 76  | 241723 | 20.298 | ug/l | 97     |
| 18) Methyl Acetate            | 4.49 | 43  | 49122  | 17.371 | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.24 | 73  | 176002 | 18.712 | ug/l | 97     |
| 20) Methylene Chloride        | 4.72 | 84  | 91108  | 21.000 | ug/l | 90     |
| 21) trans-1,2-Dichloroethene  | 5.23 | 96  | 82297  | 20.376 | ug/l | 89     |
| 22) Diisopropyl ether         | 6.13 | 45  | 226361 | 19.781 | ug/l | 99     |
| 23) Vinyl Acetate             | 6.07 | 43  | 662003 | 91.602 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.04 | 63  | 135662 | 20.061 | ug/l | 99     |
| 25) 2-Butanone                | 7.00 | 43  | 110959 | 85.693 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 6.99 | 77  | 109109 | 19.638 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.00 | 96  | 90370  | 20.366 | ug/l | 100    |
| 28) Bromochloromethane        | 7.35 | 49  | 46974  | 17.803 | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.36 | 42  | 77532  | 84.178 | ug/l | 100    |
| 30) Chloroform                | 7.52 | 83  | 126025 | 19.708 | ug/l | 100    |
| 31) Cyclohexane               | 7.79 | 56  | 141022 | 19.832 | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.71 | 97  | 108037 | 19.806 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.93 | 75  | 108640 | 20.244 | ug/l | 99     |
| 37) Ethyl Acetate             | 7.09 | 43  | 51346  | 17.280 | ug/l | 98     |
| 38) Carbon Tetrachloride      | 7.91 | 117 | 97702  | 20.780 | ug/l | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 12:07:44 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.19  | 83   | 149680   | 21.003  | ug/l   | 100      |
| 40) Benzene                    | 8.17  | 78   | 336979   | 20.814  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.33  | 41   | 26312m   | 20.424  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 75849    | 19.596  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 94198    | 17.125  | ug/l   | 97       |
| 44) Trichloroethene            | 8.94  | 130  | 88457    | 20.737  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.22  | 63   | 80457    | 19.810  | ug/l   | 99       |
| 46) Dibromomethane             | 9.31  | 93   | 40316    | 19.256  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.50  | 83   | 96101    | 19.816  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.30  | 41   | 41555    | 17.703  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 11432    | 373.269 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 244221   | 85.183  | ug/l   | 98       |
| 52) Toluene                    | 10.24 | 92   | 204788   | 20.551  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.47 | 75   | 102367   | 19.449  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 124396   | 19.655  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.64 | 97   | 62077    | 19.861  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 82674    | 18.585  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 104416   | 19.059  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 157793   | 91.838  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.83 | 43   | 163608   | 82.471  | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.99 | 129  | 64763    | 19.398  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 57560    | 19.258  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.72 | 164  | 90294    | 20.847  | ug/l   | 92       |
| 65) Chlorobenzene              | 11.52 | 112  | 209058   | 20.133  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 70852    | 20.676  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.59 | 91   | 383148   | 20.514  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.70 | 106  | 294703   | 41.556  | ug/l   | 98       |
| 69) o-Xylene                   | 12.03 | 106  | 138467   | 20.755  | ug/l   | 99       |
| 70) Styrene                    | 12.04 | 104  | 233837   | 20.613  | ug/l   | 99       |
| 71) Bromoform                  | 12.20 | 173  | 35139    | 18.416  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.33 | 105  | 362507   | 20.338  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.14 | 43   | 78717    | 16.811  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 64220    | 18.289  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 52260m   | 18.405  | ug/l   |          |
| 77) Bromobenzene               | 12.61 | 156  | 81324    | 20.287  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.67 | 91   | 441207   | 20.315  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 244080   | 20.350  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 302235   | 20.687  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 24030    | 18.049  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 255333   | 20.496  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.07 | 119  | 256313   | 20.899  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 304465   | 20.738  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 372559   | 20.606  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.36 | 119  | 331123   | 21.165  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 161292   | 20.950  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 156181   | 20.109  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.69 | 91   | 326347   | 20.733  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.96 | 117  | 59556    | 20.205  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 144498   | 20.346  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 10280    | 17.499  | ug/l   | 93       |

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ALS Vial : 5 Sample Multiplier: 1

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 97166    | 20.270 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.11 | 225  | 47816    | 20.961 | ug/l  | 99       |
| 95) Naphthalene            | 15.23 | 128  | 212806   | 18.877 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.42 | 180  | 86583    | 20.253 | ug/l  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

